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PTO/SB/05 (08-03)

Approved for use through 07/31/2006, OMB 0651-0032

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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## UTILITY PATENT APPLICATION **TRANSMITTAL**

Attorney Docket No.	67,007-010; R-05326	ρΤσ
First Inventor	Jung	S.
Title	High-Efficiency Turbulators	
Express Mail Label No.	EV220475142US	270

	(Only for new no	onprovisiona	I applications under 3	7 CFR 1.53(b))	Express I	Mail Label No.	EV2204	475142US		~~~
Se			ION ELEMENT	_	ADDRE	SS TO:	Commiss P.O. Box	Patent Applicationer for Paten 1450 a VA 22313-14	its	- 6
a. b.	(Submit an ou Applicant cl See 37 CFF Specificatio (preferred am - Descriptive - Cross Refe - Statement F - Reference t or a comput - Background - Brief Summ - Brief Descri - Detailed De - Claim(s) - Abstract of Drawing(s)  th or Declarati Newly e:  Copy fro (for cont. Signee name 1.63(c)  Applicatio	iginal and a aims small a (1.27. n angement stitle of the in rence to Rel Regarding Foosequence er program to fit the Inversity of the Inversi	ated Applications ed sponsored R & D listing, a table, listing appendix ution vention Drawings (if filed)  re  113) [Total Sheet [Total Sheet riginal or copy) application (37 CFR visional with Box 18 INVENTOR(S) attached deleting invelopplication, see 37 CFR (3(b))		8. Nucl (if ap a. b. b. c. \( \begin{aligned} & & & & & & & & & & & & & & & & & & &	i. CD- ii. Pap Statement CCOMPAN  Assignment F 37 CFR 3.73 (when there is English Trans Information D Statement (ID Preliminary A Return Recei (Should be sp. Certified Cop. (if foreign pric. Nonpublicatio (b)(2)(B)(i). A or its equivale Other: Certified	ram (Appermino Acid essary) Readable ion Seque ROM or Certain Seque Principle Properties an assignation Document Postcare Properties In Request popular in Request popular in Request in the certain medicant ment.	endix) Sequence S Form (CRF) Ence Listing of D-R (2 copies  D-R (2 copies  PPLICATION  Ver sheet & dent (if approximate)  Lument (if approximate)  to d (MPEP 503)  to demized)  ty Document(ined)  ty under 35 U.  ust attach for  Express M	above copies ON PART focument(s) Power of Attorney colicable) Copies of Citations S) S.C. 122 m PTO/SB	(S) (IDS) (35)
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation Divisional Continuation-in-part (CIP) of prior application No.:										
Prior application information:  Examiner  For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.  The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS										
				<del> </del>	-3	7			_	
	Customer N	umber:		026096		_ OR L	Corre	spondence a	address bel	wo
Name	ТНЕ	ODORE	W. OLDS							
Addro	Carlson Gaskey & Olds, P.C.									
	Address 400 West Maple Road, Suite 350		State la si	State less			Zip Code   49000			
City		ningham		)	State MI			Fax	140009	
<u></u>	, 10111		s of America		أحجوب	248-988-836	-		<sub>[248-98</sub>	38-8363
		THEOD	ORE W. OLDS	<u> </u>	Registrati	ion No. (Attorne	y/Agent)	33,080		
Signat	ture		111					Date D	ecember	11, 2003

This collection of information is required by 67 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Complete if Known

Name (Print/Type)

Signature

Theodore W. Olds,

PTO/SB/17 (10-03)
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S ILL INAMONIII A	┕▐	Application Number			Herewith			
공 for FY 2004	L	Filing	Date		Herewith	Herewith		
Effective 10/01/2003. Patent fees are subject to annual revision.		First Named Inventor			Jung	Jung		
		Exam	iner Nam	ne				
Applicant claims small entity status. See 37 CFR 1.27		Art Unit						
TOTAL AMOUNT OF PAYMENT (\$) 810.00		Attorn	ey Dock	et No.	67,007-010; R-05326			
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)							
Check Credit card Money Other None	3. ADDITIONAL FEES							
Deposit Account:	Large Entity   Small Entity							
Denosit	Fee Code		Fee Fe Code (\$		Fee Description	Fee Paid		
Account S0-1482	1051	130	•	•	urcharge - late filing fee or oath	1		
Deposit Account Carlson, Gaskey & Olds	1052	50	2052		urcharge - late provisional filing fee or over sheet			
Name	1053	130	1053 1		on-English specification			
The Director is authorized to: (check all that apply)  Charge fee(s) indicated below  Credit any overpayments	1812	2,520	1812 2,5	520 Fc	or filing a request for ex parte reexamination			
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804 9		equesting publication of SIR prior to xaminer action			
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	1,840*	1805 1,8		equesting publication of SIR after xaminer action			
FEE CALCULATION	1251	110	2251	55 E	xtension for reply within first month			
1. BASIC FILING FEE	1252	420	2252	210 E	xtension for reply within second month			
Large Entity Small Entity	1253	950	2253 4	475 E	xtension for reply within third month			
Fee Fee Fee Fee <u>Fee Description</u> Fee Paid Code (\$)	1254	1,480	2254	740 E	xtension for reply within fourth month			
1001 770 2001 385 Utility filing fee	1255	2,010	2255 1,	,005 E	xtension for reply within fifth month			
1002 340 2002 170 Design filing fee 770.00	1401	330	2401	165 N	lotice of Appeal			
1003 530 2003 265 Plant filing fee	1402	330	2402	165 F	iling a brief in support of an appeal			
1004 770 2004 385 Reissue filing fee	1403	290	2403	145 R	equest for oral hearing			
1005 160 2005 80 Provisional filing fee	1451	1,510	1451 1,	,510 P	etition to institute a public use proceeding			
SUBTOTAL (1) (\$) 770.00	1452	110	2452	55 P	etition to revive - unavoidable			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453	1,330	2453	665 P	etition to revive - unintentional			
Fee from	1501		2501		Itility issue fee (or reissue)			
Extra Claims below Fee Paid  Total Claims 20 -20** = X = 0.00	1502	480	2502		Design issue fee			
Independent 3 2** - V - O OO	1503	640	2503		Plant issue fee			
Claims - 3 - 1 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	1460	130	1460		Petitions to the Commissioner			
Large Entity   Small Entity	1807	50	1807		Processing fee under 37 CFR 1.17(q)			
Fee Fee Fee Fee Description  Code (\$) Code (\$)	1806 8021	180 40	1806 8021	40 R	ubmission of Information Disclosure Stmt ecording each patent assignment per	40.00		
1202 18 2202 9 Claims in excess of 20	1809	770	2809	pı	roperty (times number of properties) filing a submission after final rejection			
1201 86 2201 43 Independent claims in excess of 3	1009			(3	37 ČFR 1.129(a))			
1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 ** Reissue independent claims	1810	770	2810		or each additional invention to be xamined (37 CFR 1.129(b))			
over original patent	1801	770	2801	385	Request for Continued Examination (RCE)			
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802		Request for expedited examination of a design application			
SUBTOTAL (2) (\$) 0.00		fee (sp						
**or number previously paid, if greater; For Reissues, see above	*Redu	ced by	Basic Filir	ng Fee	Paid SUBTOTAL (3) (\$) 40.00	) ]		
SUBMITTED BY					(Complete (if applicable))			

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Registration No.

33,080

Telephone 248-988-8360

December 11, 2003

## UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Jung

Serial No.:

Unknown

Filed:

Herewith

Title:

HIGH-EFFICIENCY TURBULATORS FOR HIGH-STAGE GENERATOR OF ABSORPTION CHILLER/HEATER

## **EXPRESS MAIL CERTIFICATE**

"Express Mail" Label Number: EV220475142US

Date of Deposit:

**December 11, 2003** 

I hereby certify that the attached documents or fees are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to "Mail Stop Patent Applications, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. .

Laura Combs

(Typed or printed name of person mailing paper or fee)

(Signature of person mailing paper or fee)